

Experiment Number: 356540

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Ziram**

CAS Number: **137-30-4**

Date Report Requested: **09/13/2018**

Time Report Requested: **19:44:22**

NTP Study Number:

356540

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	119 ± 4.2	166 ± 7.0	121 ± 7.8	156 ± 12.0	112 ± 6.7
3.0	150 ± 11.1	177 ± 10.8	172 ± 5.8	182 ± 20.3	140 ± 19.9
10.0	192 ± 14.0	270 ± 7.2	197 ± 13.1	252 ± 17.0	159 ± 6.6
33.0	249 ± 15.1	374 ± 2.9	288 ± 3.5	332 ± 5.2	290 ± 25.7
100.0	309 ± 10.2	505 ± 21.1	340 ± 17.3	488 ± 69.0	482 ± 32.7
333.0	45 ± 27.1 ^s	350 ± 59.6	170 ± 15.2 ^s	336 ± 54.5	274 ± 42.7 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			612 ± 14.7	1703 ± 202.1	1013 ± 35.0
Positive Control ³	420 ± 7.0	482 ± 13.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	138 ± 10.6
3.0	142 ± 3.2
10.0	120 ± 60.1
33.0	277 ± 52.3
100.0	475 ± 108.2
333.0	600 ± 56.3
Trial Summary	Positive
Positive Control ²	1978 ± 31.5
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	29 ± 0.9	13 ± 0.6	11 ± 1.8	16 ± 0.6
3.0	27 ± 3.2	12 ± 1.8	7 ± 2.5	8 ± 2.0
10.0	22 ± 1.2	12 ± 1.7	15 ± 1.9	9 ± 2.6
33.0	24 ± 2.3	19 ± 1.5	31 ± 5.2	24 ± 1.7
100.0	32 ± 5.8	23 ± 2.8	34 ± 3.0	41 ± 7.3
333.0	12 ± 6.2 ^s	7 ± 4.1 ^s	9 ± 4.7 ^s	32 ± 5.6 ^s
Trial Summary	Negative	Negative	Positive	Positive
Positive Control ³	554 ± 6.7			
Positive Control ⁴		346 ± 24.7	377 ± 16.4	606 ± 23.6

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.7	8 ± 1.0	9 ± 1.8
3.0	6 ± 1.8	13 ± 1.9	7 ± 0.7
10.0	7 ± 0.9	14 ± 0.3	9 ± 0.3
33.0	6 ± 1.9	15 ± 3.5	17 ± 4.9
100.0	12 ± 3.3	20 ± 4.0	17 ± 2.3
333.0	8 ± 4.1 ^s	7 ± 1.3 ^s	8 ± 3.2 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		234 ± 14.0	324 ± 8.8
Positive Control ⁵	141 ± 3.2		

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Date Report Requested: 09/13/2018
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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 4.9	36 ± 3.3	28 ± 2.0	29 ± 0.7
3.0	17 ± 2.3	36 ± 7.5	28 ± 3.7	42 ± 5.0
10.0	24 ± 4.0	37 ± 4.0	32 ± 2.4	46 ± 5.3
33.0	31 ± 6.3	41 ± 6.9	31 ± 1.2	47 ± 3.0
100.0	33 ± 2.3	46 ± 5.3	56 ± 2.4	86 ± 3.8
333.0	9 ± 6.0 ^s	28 ± 4.9 ^s	25 ± 3.2 ^s	69 ± 15.5 ^s
Trial Summary	Negative	Negative	Equivocal	Positive
Positive Control ²		507 ± 21.0	1048 ± 40.5	1503 ± 69.9
Positive Control ⁶	536 ± 43.2			

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LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****